

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/05/01

Date Received: 06/28/01

Project: Metro Self Monitor, PO# M66368

Date Extracted: 07/02/01

Date Analyzed: 07/03/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M66368 106136-01	0.47	0.35	0.35	0.07
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 106136-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.47	0.38	21 vo	0-20
Copper	mg/L (ppm)	0.35	0.32	9	0-20
Nickel	mg/L (ppm)	0.35	0.25	33 a	0-20
Zinc	mg/L (ppm)	0.07	0.10	35 a	0-20

Laboratory Code: 106136-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	0.47	95	80-120
Copper	mg/L (ppm)	5	0.35	96	80-120
Nickel	mg/L (ppm)	10	0.35	99	80-120
Zinc	mg/L (ppm)	5	0.07	102	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	50	94	98	80-120	4
Copper	mg/L (ppm)	50	96	105	80-120	9
Nickel	mg/L (ppm)	100	95	99	80-120	4
Zinc	mg/L (ppm)	50	93	97	80-120	4

vo - The value reported fell outside the control limits established for this analyte.

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

106136

SAMPLE CHAIN OF CUSTODY

MC 6.28.01 AI,

Send Report To GERARD A. Thompson
 Company ALASKAN Copper Works
 Address 628 S. Harbor St
 City, State, ZIP Seattle WA 98023
 Phone # 206-382-8329 Fax # 206-382-4809

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

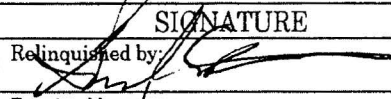
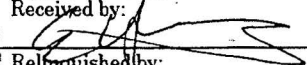
Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CL, Cu, Ni, Zn				
M 66368	01	6/28/01	12:20	H2O	1							✓				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	GERARD A. Thompson	ACW	6/28/01	12:54
Received by: 	ERIC YOUNG	FB Inc.	6/28/01	1:00
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 5, 2001

DUPLICATE COPY

INVOICE #01ACU0705-3

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M66368 - Results of testing requested by
Gerry Thompson for material submitted on June 28, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 5, 2001

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 28, 2001 from your Metro Self Monitor, PO# M66368 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

Enclosures
ACU0705R.DOC